

REMARKS/ARGUMENTS

Claims 1-54 were pending. Claims 1, 5, 15, 30, 35, 39, 46, and 49 have been amended. Claims 55-57 have been added. Consequently, claims 1-57 presently are pending.

Claims 1, 2, 6, 9-11, 15, 16, 22, 25, 26, 35, 36, 40, 43, and 44 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Pat. No. 5,732,349 to Sanpei et al. Claims 5, 21, and 39 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of U.S. Pat. No. 6,282,431 to Konno. Claims 3, 7, 17-19, 23, 37, and 41 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of view of U.S. Pat. No. 5,305,372 to Tomiyori. Claims 4, 20, and 38 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of U.S. Pat. No. 6,085,098 to Moon et al. Claims 8, 24, and 42 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of U.S. Pat. No. 6,201,963 to Nakamura. Claims 12, 13, 27, 28, 30, 31, 34, 46, 49-50, 53, and 54 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of U.S. Pat. No. 6,292,666 to Siddiqui et al. Claims 34 and 49 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of Siddiqui et al. and in view of Konno. Claims 32, 47, and 51 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of Siddiqui et al. and in view of Tomiyori. Claims 33 and 48 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of Siddiqui et al. and in view of Moon et al. Claim 52 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of Siddiqui et al. and in view of Nakamura. Claim 14 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei. Applicants respectfully traverse the rejections.

The present invention as recited in amended claim 1 is a system for updating information stored in a memory of a portable electronic device. The system includes a plurality of base stations, each base station being located at a respective geographic location and transmitting a radio signal including information specific to the respective geographic

location. A transceiver is provided in the portable electronic device. When the portable electronic device comes into range of a base station, the device automatically receives the radio signal from the base station. Information stored in the memory of the portable electronic device is updated based on the information in the radio signal.

Sanpei et al. discloses a telephone system in which portable telephones communicate by way of base stations. Communication via a base station is initiated by the portable telephone. Sanpei et al. contains no teaching or suggestion that the base station transmits a radio signal, or that the radio signal is automatically received by the portable telephone when in range to update information at the portable telephone. To the contrary, Sanpei et al. discloses that a communication with a base station occurs when a user operates the portable telephone, after which a code containing location information is returned from the base station to the portable telephone. In the present invention, as recited in amended claim 1, the base station transmits a signal that is received automatically by the portable device when within range of the base station which causes the portable device to update stored information. Consequently, Sanpei et al. does not anticipate or render obvious the present invention as recited in amended claim 1.

Konno does not cure the deficiencies of Sanpei et al. Konno discloses a time-correcting system for a portable telephone in which notifying information is transmitted from a base station after a power switch on the portable telephone is activated and system acquisition has been established. Konno does not teach or suggest a system with plural base stations located at various geographic locations, each transmitting a radio signal including location-specific information, and a transceiver provided in a portable electronic device such that when the portable electronic device comes into range of a base station, the device automatically receives the radio signal from the base station and updates information in memory. Consequently, Konno, whether taken alone or in combination with Sanpei et al., does not teach or suggest the invention recited in amended claim 1.

Tomiyori does not cure the deficiencies of Sanpei et al. Tomiyori discloses a mobile telephone in which a country in which the telephone is being used is registered manually by the mobile telephone user. Tomiyori does not teach or suggest base stations located at respective geographic locations transmitting radio signals including information specific to the respective geographic locations, and a transceiver provided in the portable electronic device which, when the portable electronic device comes into range of a base station, automatically receives the radio signal from the base station and updates stored information.

Moon et al. does not cure the deficiencies of Sanpei et al. Moon et al. discloses a portable communication device in which settings for software applications are automatically configured based on location information. Moon et al. does not teach or suggest base stations, located at respective geographic locations, transmitting radio signals including information specific to the respective geographic locations, and a transceiver provided in a portable electronic device, which automatically receives the radio signal from the base station when the portable electronic device comes into range of a base station and updates information contained in a memory of the portable electronic device.

Nakamura does not cure the deficiencies of Sanpei et al. Nakamura discloses a portable device that issues a position registration request to a repeater stations. Nakamura does not teach or suggest base stations located at respective geographic locations and transmitting radio signals including information specific to the respective geographic locations, and a transceiver provided in a portable electronic device, which automatically receives the radio signal from the base station when the portable electronic device comes into range of a base station and updates information contained in a memory of the portable electronic device.

In view of the foregoing, independent claim 1, and its dependent claims 2-14 and 55-56, are submitted as being patentable over the cited prior art. Independent claims 15 and 35 have been amended in a manner similar to that of claim 1, and similarly recite that

the radio signal containing position information and broadcast by the base stations is received automatically when the portable device comes within range of a base station. Claims 15 and 35, and respective dependent claims 16-29 and 35-45, are submitted as being patentable over the cited prior art for the reasons given above for allowance of claim 1.

Claim 30 defines a portable electronic device that includes a processor, a memory coupled to the processor, and a global positioning satellite receiver coupled to the processor. The global positioning satellite receiver determines a current geographic position of the portable electronic device based on global positioning signals received directly from at least one satellite. The global positioning satellite receiver provides the current geographic position of the portable electronic device to the processor. The processor, in response to receiving the current geographic position of the portable electronic device, automatically updates the information stored in the memory based on the current geographic position of the portable electronic device.

Sanpei et al. does not teach or suggest a portable device including a GPS receiver, as the Examiner admits on page 6, paragraph no. 9 of the Office action. Thus, Sanpei et al. alone does not anticipate or render obvious the invention recited in amended claim 30.

Siddiqui et al. does not cure the deficiencies of Sanpei et al. Siddiqui et al. discloses a mobile device that includes a GPS receiver that transmits coordinate information to a base station which uses the coordinate information to append a correct country code. Siddiqui et al. does not teach or suggest a mobile device having a global positioning satellite receiver that receives GPS information directly from at least one satellite and provides the current geographic position of the portable electronic device to the processor, which the processor, in response to receiving the current geographic position of the portable electronic device, automatically updates information stored in a memory based on the current geographic position of the portable electronic device.

Konno, Tomiyori, Moon et al. and Nakamura, taken alone or in combination, do not cure the deficiencies of Sanpei et al. and Siddiqui et al. These tertiary references have been cited as providing a portable device that includes, respectively, a clock, speed dialing, a

calendar, and a date. None of these references, alone or in combination with other references of record teaches or suggests a portable electronic device that includes a processor, a memory coupled to the processor, and a global positioning satellite receiver coupled to the processor for determining a current geographic position of the portable electronic device based on global positioning signals received directly from at least one satellite and providing the current geographic position of the portable electronic device to the processor, in which the processor, in response, automatically updates information stored in memory based on the current geographic position of the portable electronic device.

For the foregoing reasons, independent claim 30 and dependent claims 31-34 are patentable over the cited prior art.

Independent claim 46 has been amended in a manner similar to that of claim 30, and recites a method for updating information stored in a memory of a portable electronic device. The method includes determining a position of a portable electronic device based on signals received directly by the portable electronic device from at least one global positioning satellite, determining a geographic location of the portable electronic device based on the determined position, and updating the information stored in memory based on the determined geographic location. Claim 46 thus has similar limitations to those of claim 30 and, accordingly, it is respectfully submitted that claim 46 and dependent claims 47-54 are also patentable over the cited prior art.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned **“Version with markings to show changes made.”**

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejections of the claims and to pass this application to issue.

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Respectfully submitted,

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Version With Markings to Show Changes Made

1. (Amended) A system for updating information stored in a memory of a portable electronic device, said system comprising:

a plurality of base stations, each of said plurality of base stations being located at a respective geographic location and transmitting a radio signal including information specific to said respective geographic location; and

a transceiver in said portable electronic device,

wherein when said portable electronic device comes into range of one of said plurality of base stations, said device automatically receives said radio signal from said one of said plurality of base stations and based on said information in said radio signal updates said information stored in said memory of said portable electronic device.

5. (Amended) The system of claim 1, wherein said information stored in said memory of said portable electronic [clock] device includes a clock.

15. (Amended) A portable electronic device comprising:

a processor;

a memory coupled to said processor, said memory storing information; and

a receiver coupled to said processor, said receiver automatically receiving radio signals, said radio signals including information specific to a geographic location, said receiver providing said information specific to said geographic location to said processor,

wherein said processor in response to automatically receiving said information from said receiver updates said information stored in said memory based on said information specific to said geographic location.

30. (Amended) A portable electronic device comprising:

a processor;

a memory coupled to said processor, said memory storing information; and

a global positioning satellite receiver coupled to said processor, said global positioning satellite receiver determining a current geographic position of said portable electronic device based on global positioning signals received directly from at least one satellite, said global positioning satellite receiver providing said current geographic position of said portable electronic device to said processor,

wherein said processor in response to receiving said current geographic position of said portable electronic device automatically updates said information stored in said memory based on said current geographic position of said portable electronic device.

35. (Amended) A method for updating information stored in a memory of a portable electronic device, said method comprising the steps of:

receiving a radio signal automatically from a base station when said portable electronic device comes into range of said base station, said radio signal including information specific to a geographic location in which said base station is situated; and

updating said information stored in said memory based on said information specific to said geographic location.

39. (Amended) The method of claim 35, wherein said information stored in said memory of said portable electronic [clock] device includes a clock.

46. (Amended) A method for updating information stored in a memory of a portable electronic device, said method comprising the steps of:

determining a position of said portable electronic device based on signals received directly by said portable electronic device from at least one global positioning satellite;

determining a geographic location of said portable electronic device based on said determined position; and

updating said information stored in said memory based on said determined geographic location.

49. (Amended) The method of claim 46, wherein said information stored in said memory of said portable electronic [clock] device includes a clock.